

MM4454.ST25.txt
SEQUENCE LISTING



<110> Hitomi, Jiro
Yamamura, Tokujiro
Kimura, Tatsuji
Yamaguchi, Ken

<120> Novel Calcium-Binding Proteins

<130> MM4454

<140> 09/910,208

<141> 2001-07-20

<160> 20

<170> PatentIn version 3.3

<210> 1

<211> 429

<212> DNA

<213> calcium binding protein

<220>

<221> exon

<222> (48)..(323)

<223> Amino acid sequence of calcium-binding protein from bovine amniotic fluid

<400> 1

ctggcattcc acacttctgt gcagaggggt gaacgtagtt tggtaaa atg act aag 56
Met Thr Lys
1

ctg gaa gat cac ctg gag gga atc atc aac atc ttc cac cag tac tcc 104
Leu Glu Asp His Leu Glu Gly Ile Ile Asn Ile Phe His Gln Tyr Ser
5 10 15

gtt cgg gtg ggg cat ttc gac acc ctc aac aag cgt gag ctg aag cag 152
Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu Leu Lys Gln
20 25 30 35

ctg atc aca aag gaa ctt ccc aaa acc ctc cag aac acc aaa gat caa 200
Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp Gln
40 45 50

cct acc att gac aaa ata ttc caa gac ctg gat gcc gat aaa gac gga 248
Pro Thr Ile Asp Lys Ile Phe Gln Asp Leu Asp Ala Asp Lys Asp Gly
55 60 65

gcc gtc agc ttt gag gaa ttc gta gtc ctg gtg tcc agg gtg ctg aaa 296
Ala Val Ser Phe Glu Glu Phe Val Val Leu Val Ser Arg Val Leu Lys
70 75 80

aca gcc cac ata gat atc cac aaa gag taggaagctc tttccagcaa 343
Thr Ala His Ile Asp Ile His Lys Glu
85 90

tgtccccaag aagacttacc cttctcctcc ctgaggctgc cttacccgag ggaagagaga 403

attaataaac gtactttggc aaagtt 429

MM4454.ST25.txt

<210> 2
 <211> 50
 <212> PRT
 <213> Bos taurus

<400> 2

Thr Lys Leu Glu His Leu Glu Gly Ile Ile Asn Ile Phe His Gln Tyr
 1 5 10 15

Ser Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu Leu Lys
 20 25 30

Gln Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp
 35 40 45

Gln Pro
 50

<210> 3
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 <213> Bos taurus

<400> 3

Ile Phe Gln Asp Leu Asp Ala Asp
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<210> 4
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<400> 4

Asp Gly Ala Val Ser Phe Glu Glu Phe Val Val Leu
 1 5 10

<210> 5
 <211> 9
 <212> PRT
 <213> Bos taurus

<400> 5

Thr Ala His Ile Asp Ile His Lys Glu
 1 5

<210> 6
 <211> 31
 <212> PRT
 <213> Bos taurus

<400> 6

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Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp Gln Pro Thr Ile Asp Lys
1 5 10 15

Ile Phe Gln Asp Leu Asp Ala Asp Lys Asp Gly Ala Val Ser Phe
20 25 30

<210> 7
<211> 20
<212> PRT
<213> Bos taurus

<400> 7

Glu Phe Val Val Leu Val Ser Arg Val Leu Lys Arg Ala His Ile Asp
1 5 10 15

Ile His Lys Glu
20

<210> 8
<211> 20
<212> DNA
<213> Artificial

<220>
<223> sense primer

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<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g or t

<220>
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<222> (15)..(15)
<223> n is a, c, g, or t

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<210> 9
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<223> n is a, c, g, or t

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| <212> | DNA |
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<210> 12
<211> 440
<212> DNA
<213> human calcium-binding protein
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<222> (22)..(297)
<223> Deduced amino acid sequence for human calcium-binding protein
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Met Thr Lys Leu Glu Glu His Leu Glu Gly
1 5 10
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att gtc aat atc ttc cac caa tac tca gtt cgg aag ggg cat ttt gac 99
Ile Val Asn Ile Phe His Gln Tyr Ser Val Arg Lys Gly His Phe Asp
15 20 25

acc ctc tct aag ggt gag ctg aag cag ctg ctt aca aag gag ctt gca 147
Thr Leu Ser Lys Gly Glu Leu Lys Gln Leu Leu Thr Lys Glu Leu Ala
30 35 40

aac acc atc aag aat atc aaa gat aaa gct gtc att gat gaa ata ttc 195
Asn Thr Ile Lys Asn Ile Lys Asp Lys Ala Val Ile Asp Glu Ile Phe
45 50 55

caa ggc ctg gat gct aat caa gat gaa cag gtc gac ttt caa gaa ttc 243
Gln Gly Leu Asp Ala Asn Gln Asp Glu Gln Val Asp Phe Gln Glu Phe
60 65 70

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ata | tcc | ctg | gta | gcc | att | gcg | ctg | aag | gct | gcc | cat | tac | cac | acc | cac | 291 |
| Ile | Ser | Leu | Val | Ala | Ile | Ala | Leu | Lys | Ala | Ala | His | Tyr | His | Thr | His | |
| 75 | | | | | 80 | | | | | 85 | | | | | 90 | |

aaa gag taggtagctc tctgaagctt tttacccagc aatgtcctca atgagggtct 347

Lys Glu

tttctttccc tcaccaaaac ccagccttgc ccgtggggag taagagttaa taaacacact 407

cacgaaaagt taaaaaaaaa aaaaaaaaaat tct 440

<210> 13

<211> 20

<212> DNA

<213> Artificial

<220>

<223> sense primer

<400> 13

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20

<210> 14

<211> 20

<212> DNA

<213> artificial

<220>

<223> antisense primer

<400> 14

tctttatcgg catccaggtc

20

<210> 15

<211> 15

<212> DNA

<213> Artificial

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<223> primer PMN.HP7S 1-15

<400> 15

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15

<210> 16

<211> 15

<212> DNA

<213> Artificial

<220>

<223> primer PMN.HP7A 126-112

<400> 16

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<210> 17

<211> 20

<212> DNA

<213> Artificial

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<223> primer HP7S 7-26

<400> 17
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<210> 18
<211> 20
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<223> primer HP7A 336-317

<400> 18
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<210> 19
<211> 92
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<213> calcium binding protein

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<222> (1)..(92)
<223> Amino acid sequence of SEQ ID No. 1

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Glu Tyr Ser Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu
20 25 30

Leu Lys Gln Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr
35 40 45

Lys Asp Gln Pro Thr Ile Asp Lys Ile Phe Gln Asp Leu Asp Ala Asp
50 55 60

Lys Asp Gly Ala Val Ser Phe Glu Glu Phe Val Val Leu Val Ser Arg
65 70 75 80

Val Leu Lys Thr Ala His Ile Asp Ile His Lys Glu
85 90

<210> 20
<211> 92
<212> PRT
<213> human calcium binding protein

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<221> MISC_FEATURE
<222> (1)..(92)

<223> Amino acid sequence of SEQ ID No. 12

<400> 20

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1 5 10 15

Gln Tyr Ser Val Arg Lys Gly His Phe Asp Thr Leu Ser Lys Gly Glu
20 25 30

Leu Lys Gln Leu Leu Thr Lys Glu Leu Ala Asn Thr Ile Lys Asn Ile
35 40 45

Lys Asp Lys Ala Val Ile Asp Glu Ile Phe Gln Gly Leu Asp Ala Asn
50 55 60

Asn Asp Glu Gln Val Asp Phe Gln Glu Phe Ile Ser Leu Val Ala Ile
65 70 75 80

Ala Leu Lys Ala Ala His Tyr His Thr His Lys Glu
85 90